

## Claims

1. Method for operating a first (KOM1) and a second (KOM2) radio communication system incorporating a plurality of radio stations (AP2, ZMS1, ZMS2, MS3, MS4, MS5, MS6), wherein the radio coverage areas of the first (KOM1) and of the second (KOM2) radio communication system overlap at least in part, characterized in that a message (BEACON) with instructions for organizing communication within the second radio communication system (KOM2) is sent by the first radio communication system (KOM1) to at least some of the radio stations (AP2, ZMS1, ZMS2) of the second radio communication system (KOM2).
2. Method according to claim 1, characterized in that the instructions relate to timing specifications for communication within the second radio communication system (KOM2).
3. Method according to claim 1 or 2, characterized in that the instructions relate to
  - at least one time slot (CENTRAL) for communication within the second radio communication system (KOM2) on the basis of a centrally controlled radio access method and
  - at least one time slot (DECENTRAL) for communication within the second radio communication system (KOM2) on the basis of a decentrally controlled radio access method.
4. Method according to one of claims 1 to 3, characterized in that, by means of the message (BEACON) of

the first radio communication system (KOM1), at least one radio station (AP2, ZMS1, ZMS2) of the second radio communication system (KOM2) is instructed to send information (ANNOUNCEMENT) concerning the organization of communication within the second radio communication system (KOM2) to other radio stations (MS3, MS4, MS5, MS6) of the second radio communication system (KOM2).

5. Method according to claim 4,  
characterized in that, by means of the message (BEACON) of the first radio communication system (KOM1), a time for sending the information (ANNOUNCEMENT) concerning the organization is communicated to the one or more radio stations (AP2, ZMS1, ZMS2).
6. Method according to claim 4 or 5,  
characterized in that the information (ANNOUNCEMENT) concerning the organization relates to
  - the timing of at least one time slot (CENTRAL) for communication within the second radio communication system (KOM2) on the basis of a centrally controlled radio access method and/or
  - the timing of at least one time slot (DECENTRAL) for communication within the second radio communication system (KOM2) on the basis of a decentrally controlled radio access method.
7. Method according to one of claims 4 to 6,  
characterized in that the information (ANNOUNCEMENT) concerning the organization relates to the assignment of radio resources of a time slot (CENTRAL) for communication within the second radio communication system (KOM2) on the basis of a centrally controlled radio access method to at

least one radio station (AP2, ZMS1, ZMS2) of the second radio communication system (KOM2).

8. Method according to one of claims 4 to 7, characterized in that the information (ANNOUNCEMENT) concerning the organization relates to at least one time
  - for future transmission of information (ANNOUNCEMENT) concerning the organization of communication within the second radio communication system (KOM2) by at least one radio station (AP2, ZMS1, ZMS2) of the second radio communication system (KOM2) and/or
  - for future transmission of a message (BEACON) with instructions concerning the organization of communication within the second radio communication system (KOM2) by the first radio communication system (KOM1).
9. Method according to one of claims 1 to 8, characterized in that, on the basis of the instructions of the first radio communication system (KOM1) for organizing communication within the second radio communication system (KOM2), the sequence is as follows:
  - a time slot with transmission of information (ANNOUNCEMENT) by at least one radio station (AP2, ZMS1, ZMS2) of the second radio communication system (KOM2) concerning the organization of subsequent communication within the second radio communication system (KOM2),
  - a time slot (DECENTRAL) for communication within the second radio communication system (KOM2) on the basis of a decentrally controlled radio access method,

- a time slot (CENTRAL) for communication within the second radio communication system (KOM2) on the basis of a centrally controlled radio access method.

10. Method according to claim 9,

characterized in that common frequency radio resources are available to the first (KOM1) and the second (KOM2) radio communication system and that the sequence is follows:

- the message (BEACON) of the first radio communication system (KOM1) with instructions for organizing communication within the second radio communication system (KOM2),
- the three time slots of the second radio communication system (KOM2)
  - for the transmission of information (ANNOUNCEMENT) concerning the organization,
  - for communication on the basis of the decentrally controlled radio access method and
  - for communication on the basis of the centrally controlled radio access method,
- a time slot (KOM\_BS1) for communication within the first radio communication system (KOM1).

11. Method according to one of claims 1 to 10,

characterized in that a device (BS1) of the first radio communication system (KOM1) creates instructions depending on information about radio stations (AP2, ZMS1, ZMS2, MS3, MS4, MS5, MS6) and/or about radio resources of the second radio communication system (KOM2).

12. Device (BS1) in a first radio communication (KOM1) with

- means (M1) of storing information about radio stations (AP2, ZMS1, ZMS2, MS3, MS4, MS5, MS6) and/or about

radio resources of a second radio communication system (KOM2) comprising a plurality of radio stations (AP2, ZMS1, ZMS2, MS3, MS4, MS5, MS6),

- means (M2) of creating a message (BEACON) with instructions for organizing communication within the second radio communication system (KOM2),
- means (M3) of selecting a subset of the radio stations (AP2, ZMS1, ZMS2) of the second radio communication system (KOM2),
- means (M4) of transmitting the message (BEACON) to the subset of radio stations (AP2, ZMS1, ZMS2) of the second radio communication system (KOM2).

13. Device (BS1) according to claim 12,

characterized in that the instructions in the message (BEACON) created by the device (BS1) relate to

- timing specifications for communication within the second radio communication system (KOM2) and/or
- at least one time slot (CENTRAL) for communication within the second radio communication system (KOM2) on the basis of a centrally controlled radio access method and at least one time slot (DECENTRAL) for communication within the second radio communication system (KOM2) on the basis of a decentrally controlled radio access method.

14. Device (BS1) according to claim 12 or 13,

characterized in that, by means of the message (BEACON) created by the device (BS1), at least one radio station (AP2, ZMS1, ZMS2) of the second radio communication system (KOM2) is instructed to send information (ANNOUNCEMENT) concerning the organization of communication within the second radio communication system (KOM2) to other radio

stations (MS3, MS4, MS5, MS6) of the second radio communication system (KOM2).

15. Device (BS1) according to claim 14, characterized in that, by means of the message (BEACON) created by the device (BS1), a time for transmitting the information (ANNOUNCEMENT) concerning the organization is communicated to the one or more radio stations (AP2, ZMS1, ZMS2).